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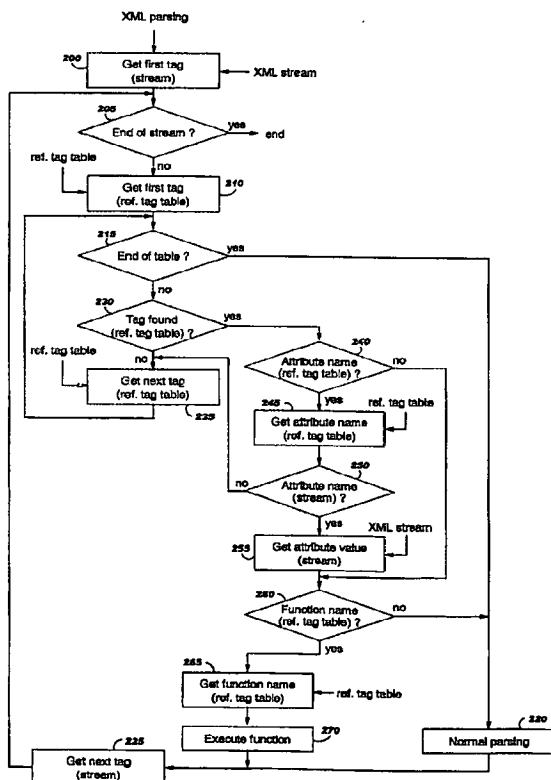
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(54) Title: **SYSTEMS AND METHOD FOR OPTIMIZING TAG BASED PROTOCOL STREAM PARSING**

(57) Abstract: A method to optimize tag based protocol parsing adapted to execute functions according to tags of a tag based protocol stream is disclosed. A reference tag table, associated to the document type definition of the tag based protocol stream, comprises tags and corresponding attribute and function names. When the optimized tag based protocol parser gets a tag from the tag based protocol stream, it determines whether or not the tag is present in the reference tag table. If the tag is not found in this table, normal parsing continues. Else, if the tag is found in this table and if there is at least one associated the attribute names from the reference tag table and from the tag based protocol stream. If the attribute names match, the parser gets the attribute values from the tag based protocol stream before getting the name of the function associated to the tag and attribute names combination. Then, the parser executes the function.

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